BRC COPY

288

HALEY & ALDRICH

BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

Waste Discharge Requirement (WDR) Permit Groundwater Sampling

DISSOLVED CARBON DIOXIDE

To: **Mr. Brian Mossman**
Boeing Realty Corporation
3855 Lakewood Blvd.
Building 1A MC D001-0097
Long Beach, CA 90846

From: **Haley & Aldrich, Inc.**

Date: **January 9, 2003**

Re: **Notification of Groundwater Sampling for Carbon Dioxide-WDR Permit Application, Boeing Realty Corporation, Former C-6 Facility, Los Angeles, California**

Introduction

Haley & Aldrich, Inc. is herein notifying the California Regional Water Quality Control Board-Los Angeles Region (LARWQCB) that two groundwater monitoring wells at Boeing Realty Corporation's (BRC's) Former C-6 Facility in Los Angeles, California (Site) will be sampled for dissolved carbon dioxide (CO_2). The CO_2 data will be used to complete the Waste Discharge Requirement (WDR) General Permit Application for the implementation of groundwater bioremediation at the Site.

Monitoring Wells and Sampling Procedure

Groundwater sampling will be performed in accordance with the Building 2 In-Situ Reactive Zone Pilot Test Work Plan dated August 15, 2001, and approved by the LARWQCB on May 17, 2002. The groundwater monitoring wells to be sampled are TMW-2 and TMW-5. These wells are located within the two primary Site groundwater plumes (Figure 1). A summary of the groundwater sampling procedure is provided below.

Groundwater monitoring wells TMW-2 and TMW-5 will be gauged prior to collecting groundwater samples to determine static water levels and total monitoring well depth. Low-flow purging (less then 250 milliliters per minute will be used to minimize disturbance to groundwater. Well purging will be performed until pH, specific conductance, and temperature values stabilize to within ten percent for two consecutive readings. Samples collected from each well will be tested for biogeochemical parameters in the field using a YSI unit and fixed-base laboratory analyses. The YSI unit, with a flow-through cell, will be used to measure pH, specific conductance, and temperature as well as dissolved oxygen and oxidation-reduction potential.

Following field analyses, groundwater samples will be collected for CO_2 laboratory analysis. Samples collected for laboratory analyses will be properly labeled and packaged in cooled ice chests at a temperature of approximately 4 degrees Centigrade (°C) and delivered via overnight carrier to VaporTech Services, Inc. located in Valencia, Pennsylvania for dissolved CO_2 analysis. Samples will be delivered using standard chain-of-custody protocol.

Field and laboratory data will be collected and reported in accordance with the BRC Data Management Plan (Boeing 2001).

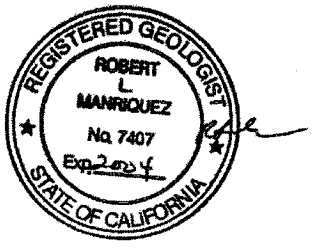
Upon receipt, laboratory data will be transmitted to the LARWQCB in a technical memorandum for inclusion in the Site WDR General Permit Application.

Purge water generated during the sampling process will be containerized and profiled for subsequent disposal.

Haley & Aldrich's Site-Specific Health & Safety Plan (SHSP) dated June 8, 2001 will be used for on-site personnel performing the well sampling activities. The SHSP has been previously submitted to the LARWQCB.

Should you have any questions concerning the contents of this memorandum or require additional information, please contact either of the undersigned.

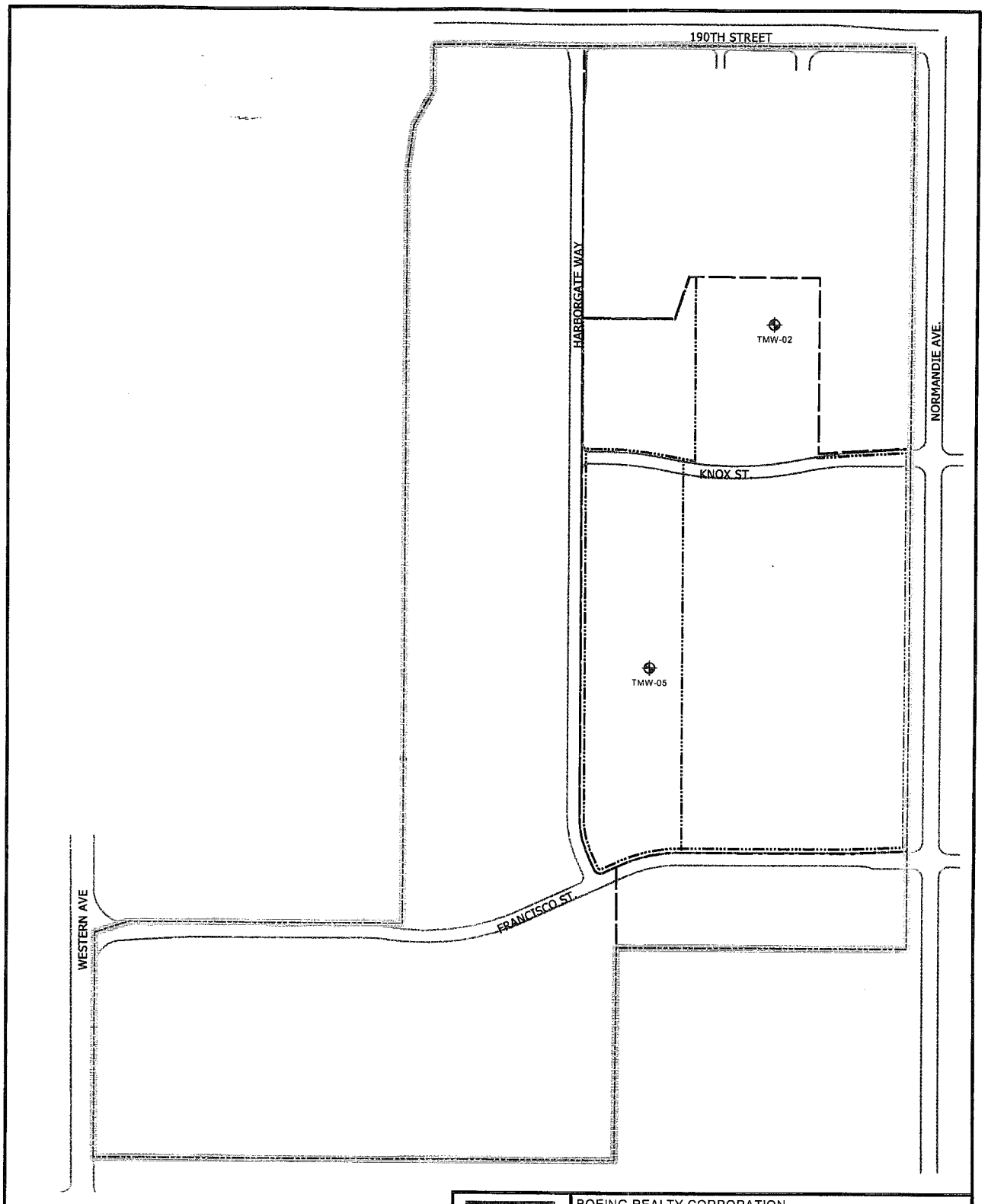
Sincerely yours,
Haley & Aldrich, Inc.



Robert L. Manriquez, R.G., R.E.A.
Senior Geologist

Scott P. Zachary
Project Manager

Attachments:
Figure 1 - Well Location Map



HALEY & ALDRICH

UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

FIGURE 1

GROUNDWATER MONITORING WELLS : TMW-02 AND TMW-05

SCALE AS SHOWN

JANUARY 2003